

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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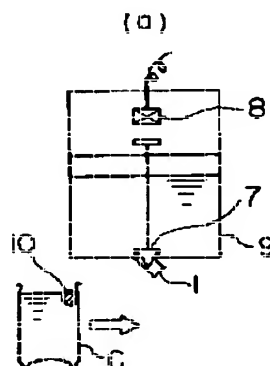
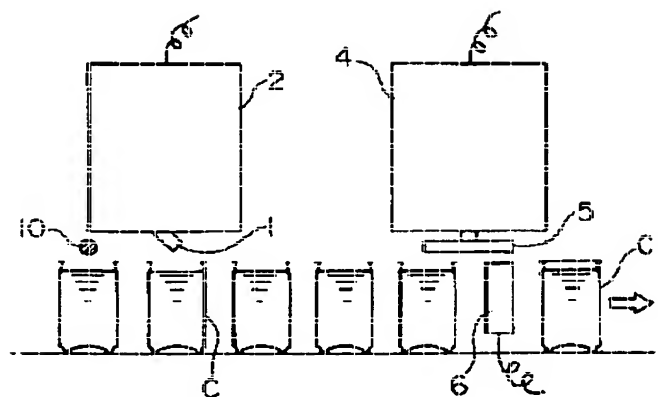
APPLICATION DATE : 19-10-92  
APPLICATION NUMBER : 04280318

APPLICANT : MITSUBISHI MATERIALS CORP;

INVENTOR : HIRAI KAZUHIKO;

INT.CL. : B65B 3/36

TITLE : LIQUEFIED NITROGEN FILLING  
APPARATUS



ABSTRACT : PURPOSE: To fill without fail cans for canned drinks with liquefied nitrogen even though the speed for conveying the cans varies.

CONSTITUTION: The title apparatus is equipped with a conveyance mechanism that conveys cans C for canned drinks to which liquefied nitrogen is dropped, a nozzle 1 that drops the liquefied nitrogen into the cans for canned drinks conveyed by the aforementioned conveyance mechanism, a valve 7 that opens and shuts the aforementioned nozzle, speed detectors 5 and 6 that detect the speed of the cans for canned drinks conveyed by the conveyance mechanism and a detector 10 provided on the upstream side of the nozzle for detecting the cans for canned drinks conveyed by the conveyance mechanism. A control device that calculates a delay based on the speed of conveyance detected by the speed detector 5 and a specified time from opening of the valve 7 to the start of dropping of the liquefied nitrogen through the nozzle 1, and makes the valve 7 open only on elapse of the delayed time after the can for canned drinks is detected by the detector 10 is provided.

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